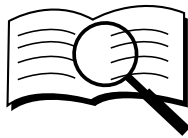




**PNEUMATIC ACTUATED ANGLE SEAT VALVE
USER'S MANUAL**



SMS SANAYİ MALZEMELERİ ÜRETİM VE SATIŞI A.Ş.



Please read the descriptions before use!

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1. PRODUCT OVERVIEW

a. Intended Use of the Product

TORK Pneumatic Actuated Angle Seat Valves are the components to conduct on and off functions by delivering pneumatic drive power and linear motion when they are assembled to the installation. The metal parts of the Pneumatic Actuated Angle Seat Valves are made up of AISI 316 stainless steel, and the seals are made up of PTFE. Thus, they are compatible for almost every fluid. They provide complete sealing, long-life; they are convenient for frequent running. They preferred because of less pressure loss than the glove valve; rapid on-off function and high flow.



Figure 1: Pneumatic Actuated Angle Seat Valves

Areas of usage are water, air, steam, gas, chemicals, petroleum products, food, pharmaceutical industry, sterilized environment, refinement, paint machine, potable water stations, vacuum applications, oil, petroleum, alcohol, hydraulic oil, salty water, natural gas and acid.

The TORK Pneumatic Actuated Angle Seat Valves (Figure 1) are produced in normally closed and normally opened forms, preferably with the options of switch, ex-proof switch, or proportional in several models such as with welded joint, flange connection, standard high pressure, plastic and mini plastic.

b. Product Coding System

PP10 XX . XX

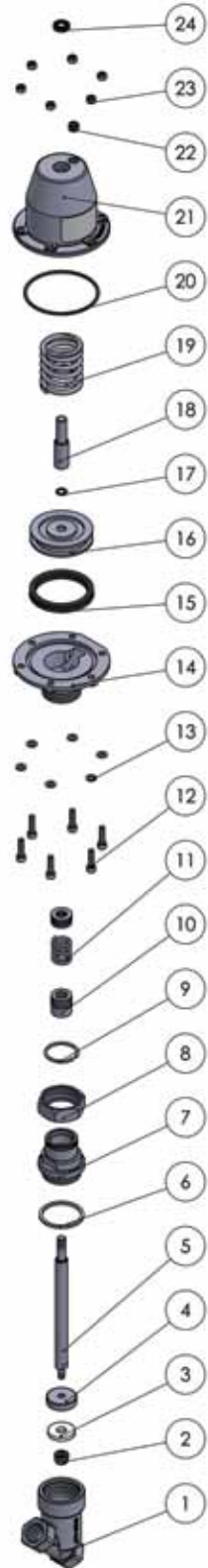
SCALE

- 00. 1/8"
- 01. 1/4"
- 02. 3/8"
- 03. 1/2"
- 04. 3/4"
- 05. 1"
- 06. 1 1/4"
- 07. 1 1/2"
- 08. 2"
- 09. 2 1/2"
- 10. 3"

TYPE

- 20. Standard Piston Valve N.C
- 21. Standard Piston Valve N.O.
- 30. Mini Plastic Cover Piston Valve N.C
- 31. Mini Plastic Cover Piston Valve N.O.
- 40. Welded-connected Piston Valve N.C
- 41. Welded-connected Piston Valve N.O.
- 60. Flange-connected Piston Valve N.C
- 61. Flange-connected Piston Valve N.O.
- 70. Standard High-pressure Piston Valve N.C
- 71. Standard High-pressure Piston Valve N.O.
- 90. Standard Plastic Cover Piston Valve N.C
- 91. Standard Plastic Cover Piston Valve N.O.

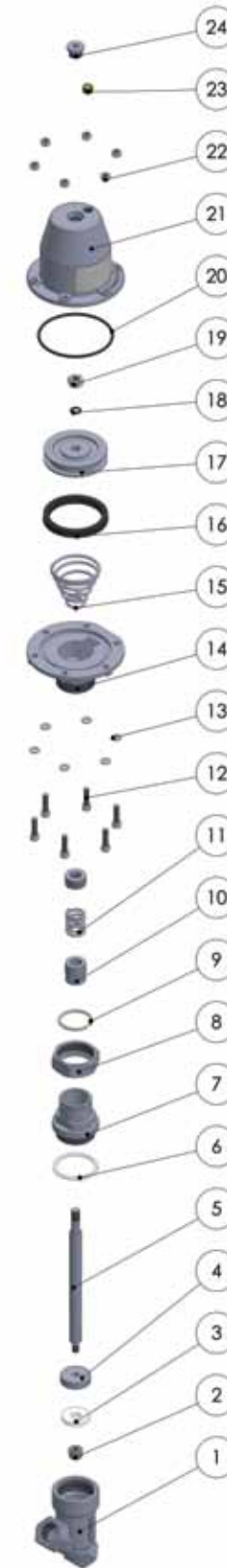
c. Exploded Picture and List Of Parts



| | | | |
|----|-----------------------|----------|-------|
| 24 | FLEXIBLE RING | 1 | Piece |
| 23 | COVER NUT | 6 | Piece |
| 22 | MUFFLER | 1 | Piece |
| 21 | CYLINDER | 1 | Piece |
| 20 | O-RING | 1 | Piece |
| 19 | SPRING | 1 | Piece |
| 18 | TAP BOLT | 1 | Piece |
| 17 | O-RING | 1 | Piece |
| 16 | PISTON | 1 | Piece |
| 15 | HYDRAULIC SEAL | 1 | Piece |
| 14 | COVER | 1 | Piece |
| 13 | ROVE | 6 | Piece |
| 12 | BOLT | 6 | Piece |
| 11 | SPRING | 1 | Piece |
| 10 | SEALING SET | 1 | Piece |
| 9 | RETAINING RING | 1 | Piece |
| 8 | COVER NUT | 1 | Piece |
| 7 | INTERMEDIATE COUPLING | 1 | Piece |
| 6 | GASKET | 1 | Piece |
| 5 | SHAFT | 1 | Piece |
| 4 | ORIFICE PLATE | 1 | Piece |
| 3 | GASKET | 1 | Piece |
| 2 | COVER NUT | 1 | Piece |
| 1 | BODY | 1 | Piece |
| No | Part Name | Quantity | Unit |

Figure 2: Exploded Picture of Standard Piston Valve N.C.

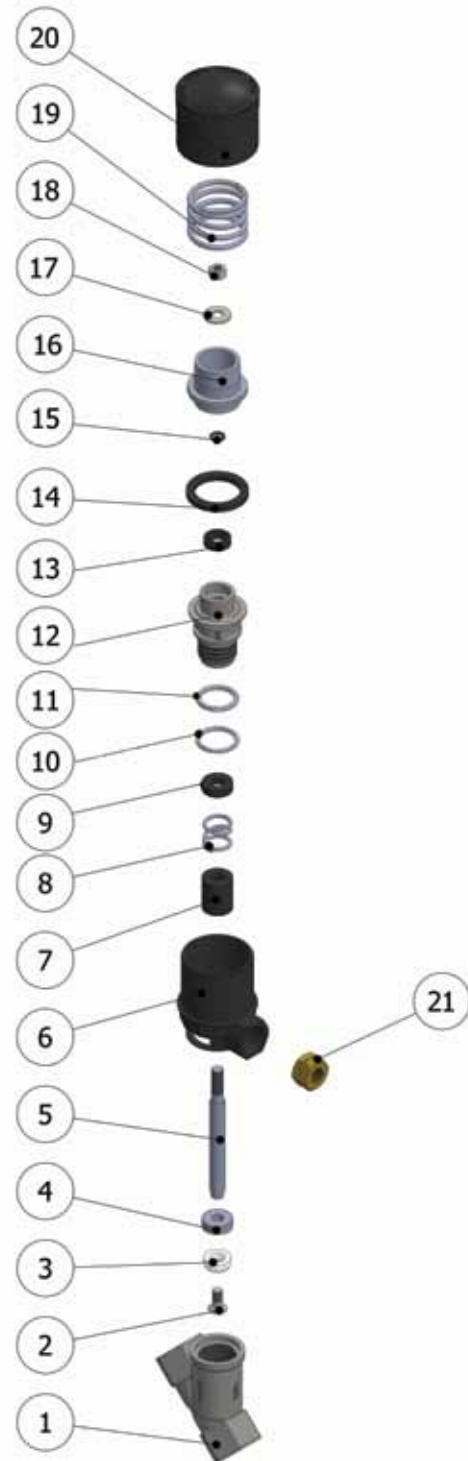
Table 1: List of Parts for Standard Piston Valve N.C



| | | | |
|----|-----------------------|----------|-------|
| 24 | COVER NUT | 1 | Piece |
| 23 | MUFFLER | 1 | Piece |
| 22 | COVER NUT | 6 | Piece |
| 21 | CYLINDER | 1 | Piece |
| 20 | ORING | 1 | Piece |
| 19 | COVER NUT | 1 | Piece |
| 18 | ORING | 1 | Piece |
| 17 | PISTON | 1 | Piece |
| 16 | HYDRAULIC SEAL | 1 | Piece |
| 15 | SPRING | 1 | Piece |
| 14 | COVER | 1 | Piece |
| 13 | ROVE | 6 | Piece |
| 12 | BOLT | 6 | Piece |
| 11 | SPRING | 1 | Piece |
| 10 | SEALING SET | 1 | Piece |
| 9 | RETAINING RING | 1 | Piece |
| 8 | COVER NUT | 1 | Piece |
| 7 | INTERMEDIATE COUPLING | 1 | Piece |
| 6 | GASKET | 1 | Piece |
| 5 | SHAFT | 1 | Piece |
| 4 | ORIFICE PLATE | 1 | Piece |
| 3 | GASKET | 1 | Piece |
| 2 | COVER NUT | 1 | Piece |
| 1 | BODY | 1 | Piece |
| No | Part Name | Quantity | Unit |

Figure 3: Exploded Picture of Standard Piston Valve N.O.

Table 2: List of Parts for Standard Piston Valve N.O.



| | | | |
|-----------|-----------------------|-----------------|-------------|
| 21 | NUT | 1 | Piece |
| 20 | PLASTIC COVER | 1 | Piece |
| 19 | PISTON SPRING | 1 | Piece |
| 18 | COVER NUT | 1 | Piece |
| 17 | ROVE | 1 | Piece |
| 16 | PLASTIC PISTON | 1 | Piece |
| 15 | O-RING | 1 | Piece |
| 14 | HYDRAULIC SEAL | 1 | Piece |
| 13 | HYDRAULIC SEAL | 1 | Piece |
| 12 | INTERMEDIATE COUPLING | 1 | Piece |
| 11 | O-RING | 1 | Piece |
| 10 | O-RING | 1 | Piece |
| 9 | SEALING SET | 1 | Piece |
| 8 | SEAL SPRING | 1 | Piece |
| 7 | SEALING SET | 1 | Piece |
| 6 | PLASTIC BODY | 1 | Piece |
| 5 | SHAFT | 1 | Piece |
| 4 | ORIFICE GASKET HOLDER | 1 | Piece |
| 3 | ORIFICE GASKET | 1 | Piece |
| 2 | BOLT | 1 | Piece |
| 1 | BODY | 1 | Piece |
| No | Part Name | Quantity | Unit |

Figure 4: Exploded Picture of
Mini Plastic Cover Piston Valve

Table 3: List of parts for
Mini Plastic Cover Piston Valve

d. Technical Specifications

| | |
|--------------------------------|--|
| Type | Pneumatic Piston Valve |
| Connection | Threaded joint, flange connection, welded joint |
| Position | Normally closed / normally open |
| Operating temperature | -10°C / +180°C |
| Control valve | 3/2 way Tork Solenoid Valve |
| Suggested air control pressure | 4-6 bar |
| Control air joint | 1/4" G |
| Sealing material | PTFE |
| Number of ways | 2/2 |
| Metal Material | AISI 316 Stainless Steel |
| Actuator material | Glass-fiber-reinforced polyamide (Mini Plastic and Standard Plastic) |
| On-off time | 30-40 ms |
| Fluid viscosity | Max. 600 mm ² /s |
| Assembly direction | The flow should be at the arrow direction. |

Table 4: General Technical Specifications

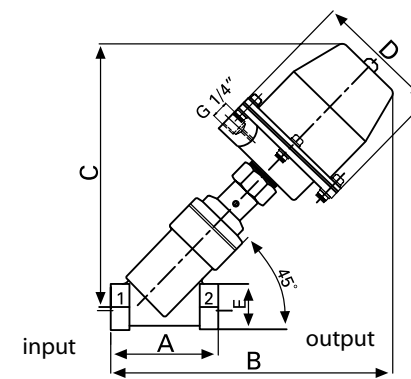


Figure 5: Standard Piston Valve

| Type | DN | A | B | C | D | E |
|---------------------|----|--------|-----|-----|-----|-----|
| | mm | Ø | mm | mm | mm | mm |
| PP1020.3/ PP1021.03 | 15 | 1/2" | 72 | 187 | 178 | 96 |
| PP1020.4/ PP1021.04 | 20 | 3/4" | 81 | 191 | 185 | 96 |
| PP1020.5/ PP1021.05 | 25 | 1" | 97 | 195 | 185 | 96 |
| PP1020.6/ PP1021.06 | 32 | 1 1/4" | 112 | 244 | 234 | 112 |
| PP1020.7/ PP1021.07 | 40 | 1 1/2" | 127 | 254 | 240 | 112 |
| PP1020.8/ PP1021.08 | 50 | 2" | 142 | 270 | 248 | 112 |

Table 5: Standard Piston Valve Sizes

| Valve Type / Order No | Joint Size G" | Orifice Size mm | Operating Pressure (bar) | | Pilot Pressure (bar) | | Control Cylinder Ø | KV lt/ min | Fluid Temperature °C | | Gasket | Weight kg |
|--------------------------|------------------|--------------------|-----------------------------|-----|-------------------------|-----|--------------------------|------------------|-------------------------|-----|--------|--------------|
| | | | Min | Max | Min | Max | | | Min | Max | | |
| PP1020.03 | 1/2" | 15 | 0 | 16 | 3.6 | 10 | 63 | 98 | -10 | 180 | PTFE | 2,15 |
| PP1020.04 | 3/4" | 20 | 0 | 12 | 3.6 | 10 | 63 | 170 | -10 | 180 | PTFE | 2,3 |
| PP1020.05 | 1" | 25 | 0 | 8 | 3.6 | 10 | 63 | 305 | -10 | 180 | PTFE | 2,6 |
| PP1020.06 | 1 1/4" | 32 | 0 | 12 | 4 | 10 | 80 | 460 | -10 | 180 | PTFE | 4,6 |
| PP1020.07 | 1 1/2" | 40 | 0 | 8 | 4 | 10 | 80 | 750 | -10 | 180 | PTFE | 5,35 |
| PP1020.08 | 2" | 50 | 0 | 6 | 4 | 10 | 80 | 1050 | -10 | 180 | PTFE | 5,2 |

Table 6: General Dimension of the Normally Closed Standard Piston Valves

| Valve Type / Order No | Joint Size G" | Orifice Size mm | Operating Pressure (bar) | | Pilot Pressure (bar) | | Control Cylinder Ø | KV lt/ min | Akışkan Sıcaklığı °C | | Gasket | Weight kg |
|--------------------------|------------------|-----------------------|-----------------------------|-----|-------------------------|-----|--------------------------|------------------|-------------------------|-----|--------|--------------|
| | | | Min | Max | Min | Max | | | Min | Max | | |
| PP1021.03 | 1/2" | 15 | 0 | 16 | 3 | 8 | 63 | 98 | -10 | 180 | PTFE | 2,15 |
| PP1021.04 | 3/4" | 20 | 0 | 16 | 3 | 8 | 63 | 170 | -10 | 180 | PTFE | 2,3 |
| PP1021.05 | 1" | 25 | 0 | 16 | 3 | 8 | 63 | 305 | -10 | 180 | PTFE | 2,6 |
| PP1021.06 | 1 1/4" | 32 | 0 | 16 | 2 | 8 | 80 | 460 | -10 | 180 | PTFE | 4,6 |
| PP1021.07 | 1 1/2" | 40 | 0 | 16 | 2 | 8 | 80 | 750 | -10 | 180 | PTFE | 5,35 |
| PP1021.08 | 2" | 50 | 0 | 16 | 2 | 8 | 80 | 1050 | -10 | 180 | PTFE | 5,2 |

Table 7: General Dimensions of the Normally Open Standard Piston Valves

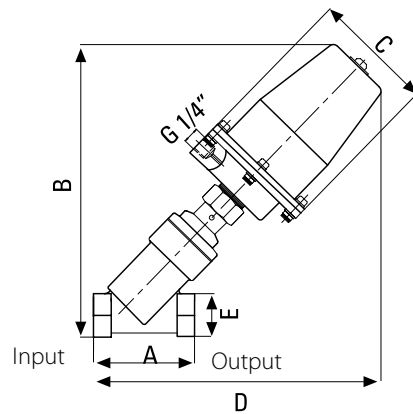


Figure 6 : Standard High-pressure
Piston Valve

| Type | DN | A | B | C | D | E |
|-----------|----|------|----|-----|-----|-----|
| | mm | Ø | mm | mm | mm | mm |
| PP1070.03 | 15 | 1/2" | 72 | 188 | 110 | 210 |
| PP1070.04 | 20 | 3/4" | 81 | 195 | 110 | 215 |
| PP1070.05 | 25 | 1" | 97 | 197 | 110 | 215 |

Table 8 : Standard High-pressure
Piston Valve Sizes

| Valve Type / Order No | Joint Size G" | Orifice Size mm | Operating Pressure (bar) | | Pilot Pressure (bar) | | Control Cylinder Ø | KV lt/ min | Fluid Temperature °C | | Gasket | Weight kg |
|--------------------------|------------------|-----------------------|-----------------------------|-----|-------------------------|-----|--------------------------|------------------|-------------------------|-----|--------|--------------|
| | | | Min | Max | Min | Max | | | Min | Max | | |
| PP1070.03 | 1/2" | 15 | 0 | 40 | 5 | 10 | 63 | 98 | -10 | 180 | PTFE | 3,350 |
| PP1070.04 | 3/4" | 20 | 0 | 40 | 5 | 10 | 63 | 170 | -10 | 180 | PTFE | 3,580 |
| PP1070.05 | 1" | 25 | 0 | 40 | 5 | 10 | 63 | 305 | -10 | 180 | PTFE | 4,050 |

Table 9: General Dimensions of Normally Closed High-pressure Piston Valves

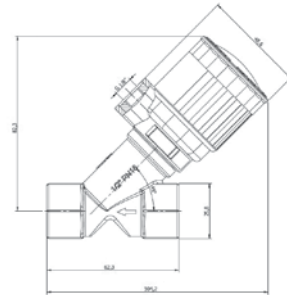


Figure 7 : Mini Plastic
Cap Piston Valve

| Type | A | B | C | D | E |
|-----------|------|------|------|-------|------|
| | mm | mm | mm | mm | mm |
| PP1030.03 | 62.3 | 82.3 | 48.6 | 104.2 | 25.8 |
| PP1031.03 | 62.3 | 82.3 | 48.6 | 104.2 | 25.8 |

Table 10 : Mini Plastic Cap Piston
Valve Sizes

| Valve Type / Order No | Joint Size G" | Operating Pressure (bar) | | Pilot Pressure (bar) | | Control Cylinder Ø | KV lt/min | Fluid Temperature °C | | Gasket | Weight kg |
|--------------------------|------------------|-----------------------------|-----|-------------------------|-----|--------------------------|--------------|-------------------------|-----|--------|--------------|
| | | Min | Max | Min | Max | | | Min | Max | | |
| PP1030 | 1/2" | 0 | 16 | 4 | 8 | 31 | 70 | -10 | 110 | PTFE | 0.36 |

Table 11: General Dimension of Mini Plastic Cap Piston Valve

e. Warning Signs and Labeling

TORK® Pneumatic Piston Valve

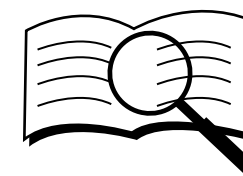
Connection : G 1/2" (DN15) Operating Temperature:-
Model : PP1020.03 10/+180°C
Orifice : 15 mm
Operating Pressure : 16 bar
Test Pressure : 24 bar
Fluid : Group 1



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The pneumatic joints
should be removed before
any intervention.



Refer to the user's manual
before any intervention.



2. PRODUCT OPERATION

a. Normally Closed Valve Operation

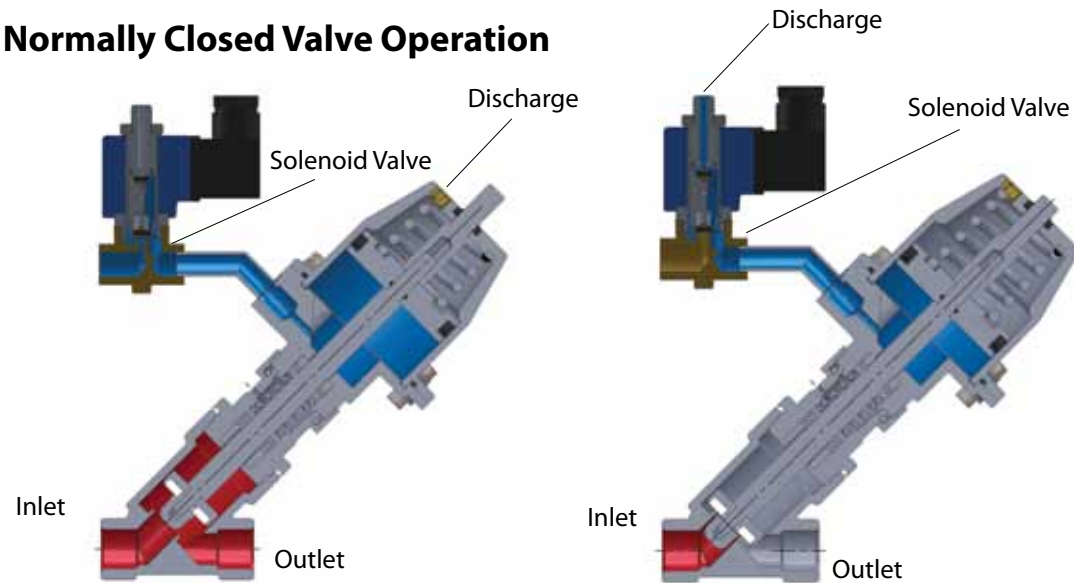


Figure 8: When Power On

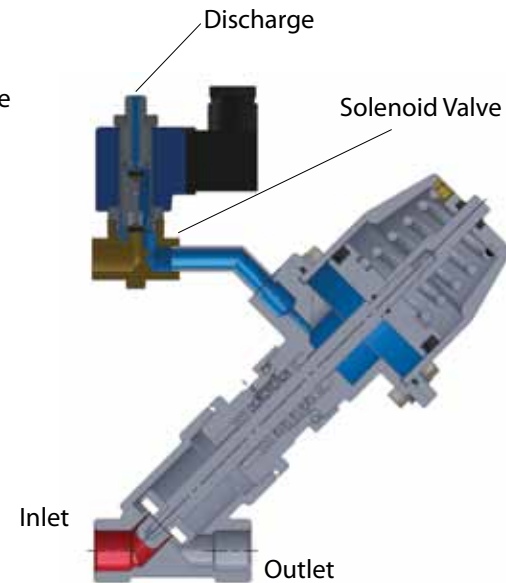


Figure 9: When Power Off

In order to turn on the valve to normally open position the solenoid valve is given power; the pressure air piston push the spring up; the inner air is discharged through air piston output and the valve orifice is opened; and thus the fluid flows in this way. (Figure 8)

When the power given to Solenoid valve is cut, the pressure air used for opening the piston valve is discharged through the solenoid valve output. The spring pushes the piston shaft to its place in a position that allows closing the valve orifice. Thus, the fluid flow stops. (Figure 9)

b. Normally Open Valve Operation

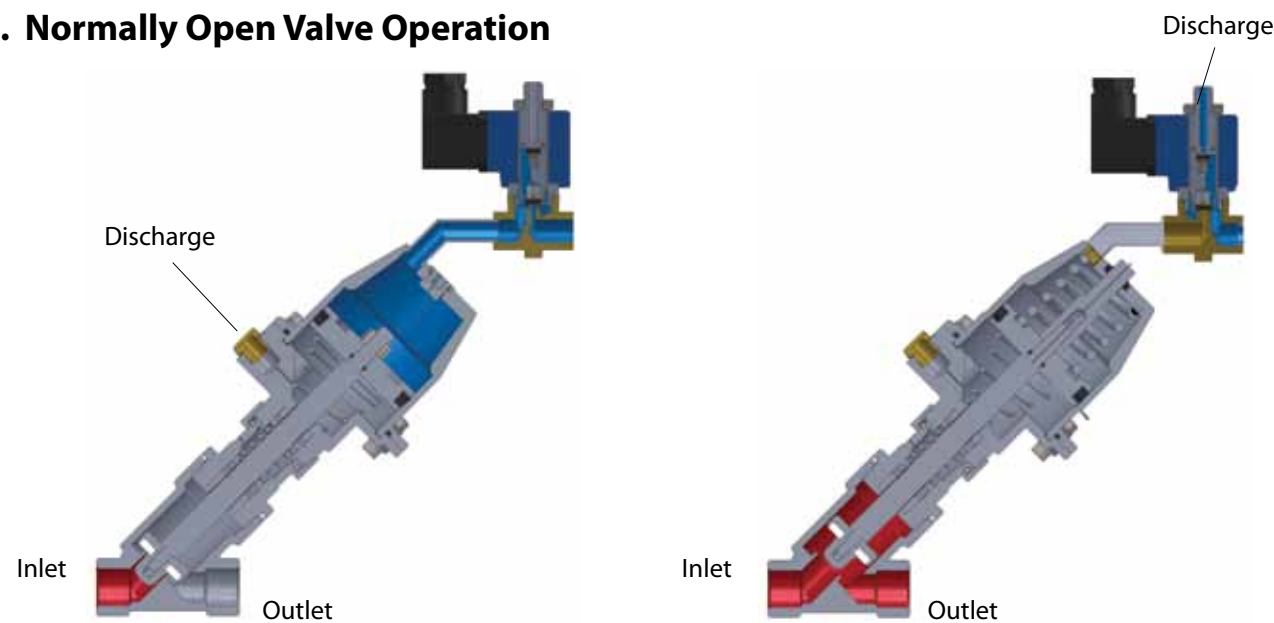


Figure 10: When Power On

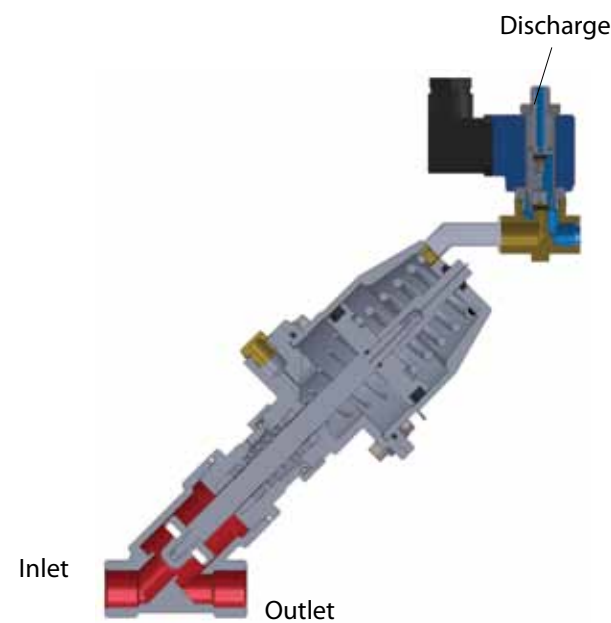


Figure 11: When Power Off

In order to turn on the valve to normally closed position the solenoid valve is given power; the pressure air piston pushes the spring down; the inner air is discharged through air piston output and the valve orifice is closed; and thus the fluid flow stops in this way. (Figure 10)
When the power of the solenoid valve is cut, the pressure air used for closing the piston valve is discharged through solenoid valve output. The spring pushes the piston shaft to its place in a position that allows opening the valve orifice. Thus, the fluid flows. (Figure 11)



Please do not combine the Standard Piston valve with the installation through welding method.



Please check to assure that flow direction in line with the arrow direction on the valve, when assembling the installation.



Please use filtered and lubricated pressure air.

3. PRODUCT INSTALLATION

A- Assembling The Pneumatic Piston Valve To The Installation

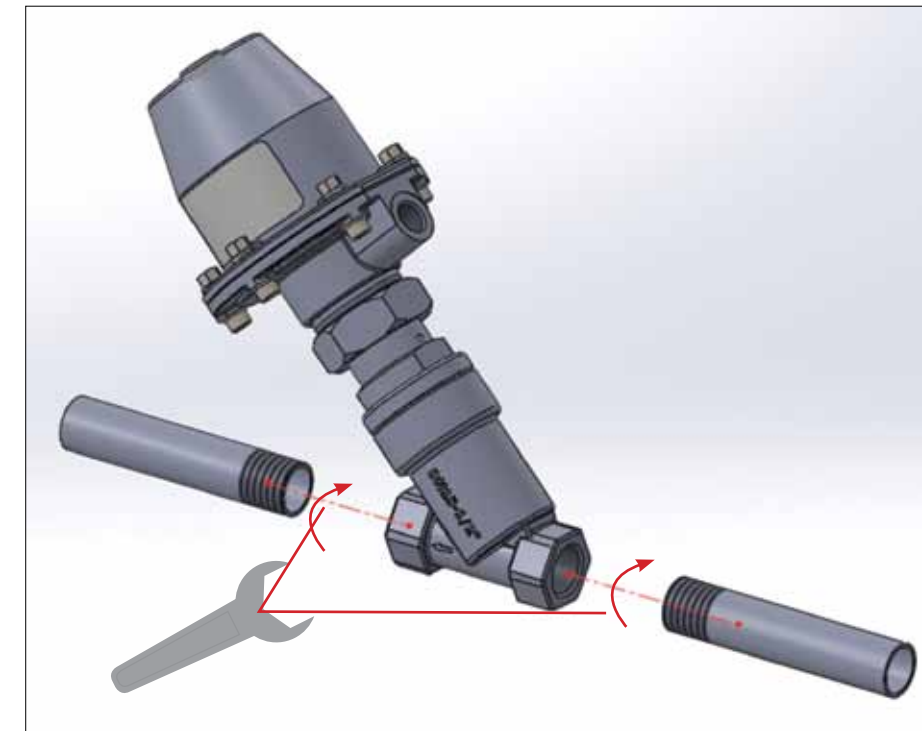


Figure 12: Standard Piston Valve Assembly

Screw the Standard Piston valve into the tubes manually as shown in the figure 12. And then screw it via a relevant wrench to complete the mounting.

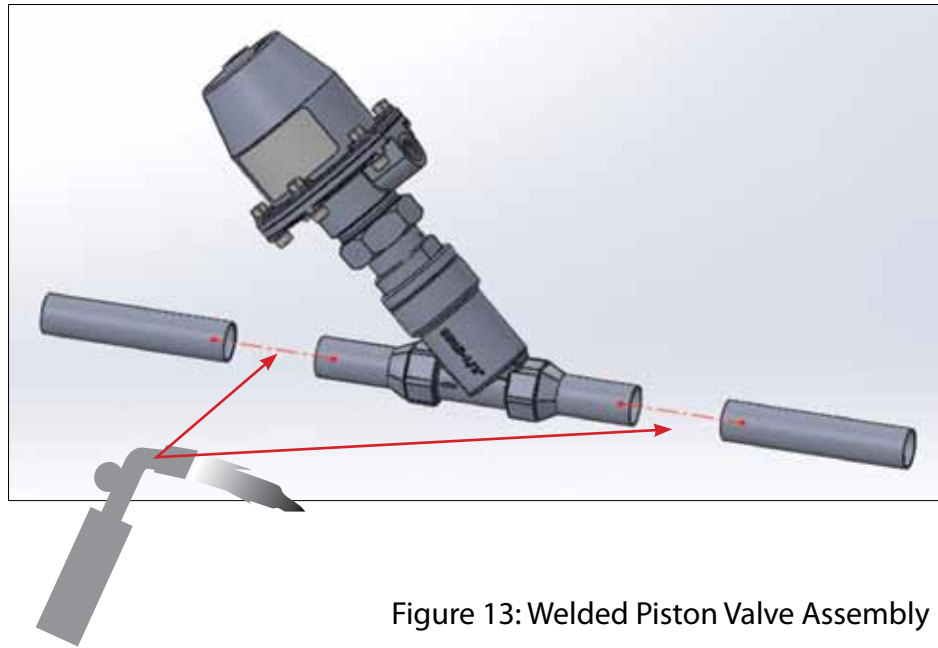


Figure 13: Welded Piston Valve Assembly

Weld the welded piston valve with the tubes as shown in the figure 13. Please keep the valve undamaged while welding.

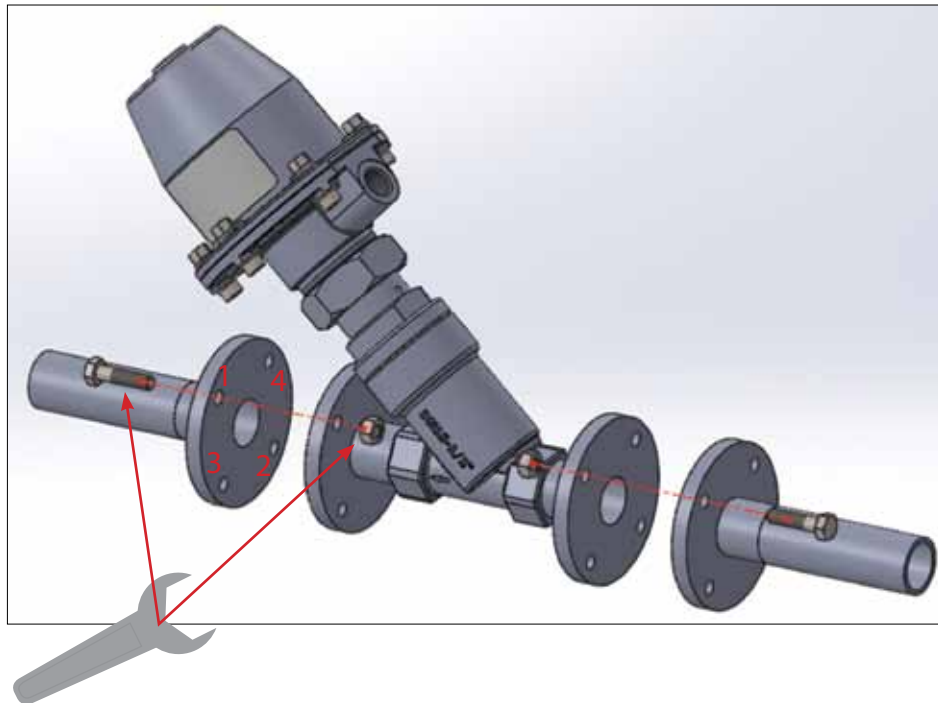


Figure 14: Flange-connection Piston Valve Assembly

Please screw the bolts and cover nuts in accordance with their line numbers as shown in figure 14.

B- Assembling The Pneumatic Actuated Angle Seat Valves To The Air Installation:

The pneumatic actuated angle seat valves are non-return valves and they should be assembled to the installation with intermediate coupling parts according to the arrow-direction on the valves. The pneumatic piston valve is assembled to the air installation as follows:



Figure 15



Figure 16 (Application Picture)

The air input G1/4" on the pneumatic piston valve is connected fixed end connection, to which air intake hose is mounted.

In order to provide air control, 1/4"-3/2-way solenoid valve (Tork S101501018E.006) is connected to the air intake G 1/4" on the pneumatic piston valve by means of nipple G 1/4", while the other end of the solenoid valve is connected fixed end connection G 1/4". Finally, a control air intake hose of 4-6 is connected to this fixed end connection.



Before assembly, please make sure that there are no damages with the product and all required parts are available. The product should not be accepted in the case that it is damaged or if there are missing parts.



Before using our products, please check the labels and other information on the product and package.



Before assembly, please make sure that the line pressure does not exceed the maximum pressure specified on the product label.



Before assembly, please check the compatibility of the product to be assembled with the system to be used. The operating limits specified in the technical specifications section should not be exceeded.

4. PRODUCT CARE AND MAINTENANCE

The TORK Pneumatic piston consists of two main groups:

- 1- The Body is the part where the fluid flows and the orifice exists. The fluid chokes up the orifice in time and therefore it should be cleaned.
- 2- The actuator is the part where the compressed spring is found and the linear motion takes place for turning on and off functions. The adjustment includes cover nut, cylinder, cover, spring, sealing component, and acorn cover nut and motion system. The motion system consists of shaft, piston, tap bolt, hydraulic seal assemblage.

The piston in the motion installation composed of hydraulic seal assemblage. The hydraulic seal in the motion installation (on-off system) is worn out in time and the piston losses air. In this case, the hydraulic seal should be replaced. The disassembly and assembly of the pneumatic piston valve for care and maintenance should be conducted in accordance with the following measures:

(See Figure 2, Figure 3, Figure 4)

a- Disassembly

1. Cut the pilot air connected to the piston valve and make sure that the valve is at the open position if it is a Normally Open valve, and that the valve is closed if it is a Normally Closed one.
2. Make sure that no flows in the installation.
3. Remove the pneumatic piston valve from the installation it is already installed.
4. Blow 6 bar air through air hose G 1/4" on the cover.
5. Fix the body any place and the remove the intermediate coupling via wrench.
6. Cut the 6 bar air blown through the air hose G 1/4" on the cover and remove the fixed end connection G 1/4".
7. Remove acorn cover nut via wrench and the orifice plate from the motion system.
8. Remove the hexagonal cover nut via wrench.
9. Place the cylinder vertically on the ground in a manner that the shaft in the motion system stays at the top side.
10. Compress the shaft in the motion system by applying pressure from the top side.
11. Remove cylinder cover bolts and slowly up rear the piston and remove the pressure on the shaft.
12. Do the essential maintenance and care.

b- Assembly

1. Place the cylinder on a smooth surface.
2. Place the spring into the cylinder; the motion system on the spring; and the cylinder cover on the spring.
3. Slowly apply pressure vertically to the shaft in the motion system via piston to contact the cylinder cover with the cylinder.
4. Screw the cylinder cover bolts.
5. Remove the piston pressure on the shaft in the motion system.
6. Place the motion system shaft between the intermediate coupling and hexagonal cover nut.
7. Screw manually the hexagonal cover nut until taking up.
8. Assemble the orifice plate to the shaft via acorn cover nut.

9. Blow 6 bar air to the air intake hose G 1/4" on the cylinder.
10. Fix the body on the ground and assemble the intermediate coupling via wrench.
11. Screw the hexagonal cover nut after adjusting the position of air connected to the installation according to the air intake hose.
12. Cut the air given through air intake house G 1/4" on the cylinder cover.
13. Assemble the pneumatic piston valve to the installation.



Please beware of disassembling when the pneumatic piston valve is under the air pressure.



Only the authorized persons should conduct assembly and disassembly of the pneumatic valve

5. PRODUCT SHIPMENT

During shipment, the valve should not fall down or be exposed to solid impact. The weights that may damage the valve should not be placed on the packages of the pneumatic piston valves. The products should be shipped in their original cardboard boxes.

6. WARRANTY PERIOD FOR THE PRODUCT

The warranty period for the TORK brand Pneumatic piston valves is two years. The maximum repair period is 20 days. The warranty does not include products if the valves are used out of scope of the terms of use specified when ordered from our company or in case of breaks resulted from the user's fault when the user try to conduct the care and repair of the product.

To benefit from the warranty, please apply to the manufacturer company with the warranty certificate approved by the company within the warranty period. In the case when you send the pneumatic piston valve via courier, please remember to add a description your complaint, the photocopy of your warranty certificate, your address and telephone number.

PRODUCING COMPANY

SMS SANAYİ MALZEMELERİ ÜRETİM VE SATIŞI A.Ş.

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Dilovası Kocaeli, Turkey

e-posta: tork@sms-tork.com.tr

www.sms-tork.com.tr / www.sms-tork.com



WARRANTY CONDITIONS

1. If there is a fault caused by the production, the manufacturer will repair or replace the defective product in its sole discretion.
2. The warranty period is two (2) years and starts from the date of delivery of the product to consumers.
3. All products, including all sub-parts, covered by our warranty.
4. The maximum repair time is one (1) month and starts from the products' arrival date to SMS factory.
5. Within the warranty period, both in material and workmanship, as well as in case of manufacturing defects, products will be repaired without any charge under any name (labor costs, or the cost of replaced parts).
6. During the warranty period, provided that the products will be exchanged free of charge if the fault is sourced by production.
7. Damages caused by the using of the product contrary to the points listed in the operating instructions are excluded from warranty coverage.
8. If there are complaints about the product please contact customer relations manager firstly.
9. For return or repair-maintenance of products send them to the factory to the customer relations department.
10. If products come to the factory, it doesn't mean acceptance of return and received by officers. Returns accepted, with the approval of the examination will be only after the relevant department managers.
11. Consult to General Directorate of Consumer and Competition Protection of the Ministry Industry and Commerce of Turkey about the issues may arise with warranty certificate.

EXCLUSIONS OF WARRANTY (USAGE DEFECTS)

1. Malfunctions occurring after the expiration of the statutory warranty,
2. The faults caused by improper use of the product by the user, (improper using to the instruction manual),
3. Any relevant malfunctions caused by other equipment in use,
4. Changes and damages not caused by the product manufacturer; for example, the case of the opening of the product by not authorized workshops,
5. All failures depend on the system (electricity, air, etc),
6. Failures depend on the intervention of unauthorized service,
7. Products with damaged or destroyed warranty label,
8. In case of damage to outer surface of the product,
9. The faults in the caused by falling, hit, etc,
10. Faults occurred on dusty, damp, extreme heat or cold environments,
11. Faults caused by natural disasters such as flood, fire, earthquake, lightning, etc,
12. Faults caused by electrostatic discharge (ESD) damage.



WARRANTY CERTIFICATE

Manufacturer : SMS SANAYİ MALZEMELERİ ÜRETİM VE SATIŞI A.Ş.
Adres : Head Office: Bostancı Yolu Kuru Sokak No:16 Yukarı Dudullu
34776 Ümraniye İstanbul TURKEY
Tel: +90 216 364 34 05 Fax: +90 216 364 37 57
Plant: İMES OSB. 5. Cadde No: 6 Çerkeşli OSB Mah. Dilovası Kocaeli TURKEY
Tel: +90 262 290 20 20 Fax: +90 262 290 20 21

Product : PNEUMATIC ACTUATED ANGLE SEAT VALVE

Trade Mark : TORK

Model :

Serial Number :

Delivery Place & Date :

Warranty Period : 2 Years

Max. Repair Time : 20 working days

Seller / Distributor :

Address :

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Manufacturer Representative

Name / Surname: Emre UZUN

Title: Quality Manager

Date: 23.12.2013

Signature:

Seller / Distrubutor Representative

Name / Surname:

Title:

Date:

Signature:





AFRICA

ALGERIA
EGYPT
ETHIOPIA
IVORY COAST
KENYA
MOROCCO
NIGERIA
SOUTH AFRICA
TUNISIA

AMERICA

DOMINICAN REPUBLIC
CANADA
CHILE
PERU
UNITED STATES OF AMERICA

ASIA

AZERBAIJAN
INDIA
INDONESIA
IRAQ
IRAN
ISRAEL
KAZAKHSTAN
KUWAIT
MALAYSIA
OMAN
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SAUDI ARABIA
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SYRIA
THAILAND
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GERMANY
GREECE
IRELAND
ITALY
LATVIA
LITHUANIA
MALTA
NETHERLANDS
NORWAY
ROMANIA
RUSSIA
SERBIA
SPAIN
SWEDEN
UKRAINE
UNITED KINGDOM

AUSTRALIA

AUSTRALIA
NEW ZEALAND

Solenoid Valves



Pneumatic Actuators



Angle - Seated Piston Valves



Limit Switch Boxes



Pneumatic Actuated Valves



Electric Actuated Valves



Flow Measuring Instruments



Pressure Measuring Instruments



Level Measuring Instruments



Temperature Measuring Instruments

